

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/627,649

DATE: 09/03/2004 TIME: 15:21:34

Input Set : A:\10 627,649 Sequence Listing.txt

Output Set: N:\CRF4\09032004\J627649.raw

```
3 <110> APPLICANT: EDELMAN, LENA
         JACOTOT, ETIENNE DANIEL FRANCOIS
 4
         BRIAND, JEAN-PAUL
 7 <120> TITLE OF INVENTION: CHIMERIC MOLECULES CONTAINING A MODULE ABLE TO TARGET
         SPECIFIC CELLS AND A MODULE REGULATING THE APOPTOGENIC
 8
         FUNCTION OF THE PERMEABILITY TRANSITION PORE COMPLEX
9
         (PTPC)
10
12 <130> FILE REFERENCE: 02356-0083
14 <140> CURRENT APPLICATION NUMBER: 10/627,649
15 <141> CURRENT FILING DATE: 2003-07-28
17 <150> PRIOR APPLICATION NUMBER: 60/265,594
18 <151> PRIOR FILING DATE: 2001-02-02
20 <160> NUMBER OF SEQ ID NOS: 325
22 <170> SOFTWARE: PatentIn Ver. 2.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 10517
26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Description of Artificial Sequence: vector pACgp67-ScFv461
31
         nucleotide sequence
33 <220> FEATURE:
34 <221> NAME/KEY: CDS
35 <222> LOCATION: (1)..(10515)
37 <400> SEQUENCE: 1
38 aag ctt tac tcg taa agc gag ttg aag gat cat att tag ttg cgt tta
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                       Ser Glu Leu Lys Asp His Ile
39 Lys Leu Tyr Ser
40 1
42 tga gat aag att gaa agc acg tgt aaa atg ttt ccc gcg cgt tgg cac
                                                                          96
       Asp Lys Ile Glu Ser Thr Cys Lys Met Phe Pro Ala Arg Trp His
43
                           20
46 aac tat ta caa tgc ggc caa gtt ata aaa gat tct aat ctg ata tgt
                                                                         144
47 Asn Tyr Leu Gln Cys Gly Gln Val Ile Lys Asp Ser Asn Leu Ile Cys
                       35
                                            40
48 30
50 ttt aaa aca cct ttg cgg ccc gag ttg ttt gcg tac gtg act agc gaa
                                                                         192
51 Phe Lys Thr Pro Leu Arg Pro Glu Leu Phe Ala Tyr Val Thr Ser Glu
                                                                         240
54 gaa gat gtg tgg acc gca gaa cag ata gta aaa caa aac cct agt att
55 Glu Asp Val Trp Thr Ala Glu Gln Ile Val Lys Gln Asn Pro Ser Ile
               65
                                    70
                                                                         288
58 gga gca ata atc gat tta acc aac acg tct aaa tat tat gat ggt gtg
```

59 Gly Ala Ile Ile Asp Leu Thr Asn Thr Ser Lys Tyr Tyr Asp Gly Val

80

60

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									•					-			
															cct		336
	His		Leu	Arg	Ala	Gly		Leu	Tyr	Lys	Lys	Ile 105	Gln	Val	Pro	GIY	
64		95					100									~+ ^	384
															acg		304
		Tnr	ьeu	Pro	Pro		ser	ire	vai	GIII		Pne	TTE	Asp	Thr		
	110					115					120					125	422
															cac		432
	Lys	GIu	Pne	Thr		гàг	Cys	Pro	GIY		ьeu	vaı	GIY	vaı	His	cys	
72					130					135					140		400
	,														tta		480
	Thr	His	Gly		Asn	Arg	Thr	Gly	_	Met	Val	Cys	Arg		Leu	Met	
76				145					150					155			. 500
															gaa		528
	His	Thr		Gly	Ile	Ala	Pro		GIu	Ala	He	Asp		Phe	Glu	Lys	
80			160					165					170				
															tta		576
83	Ala	Arg	Gly	His	Lys	Ile		Arg	Gln	Asn	$\mathtt{Tyr}$		Gln	Asp	Leu	Leu	
84		175					180					185					
86	att	taa	tta	ata	tta	ttt	gca	ttc	ttt	aac	aaa	tac	ttt	atc	cta	ttt	624
87	Ile		Leu	Ile	Leu	Phe	Ala	Phe	Phe	Asn	Lys	Tyr	Phe	Ile	Leu	Phe	
	190						195					200					
															gċt		672
91	Ser	Asn	Cys	Cys	Ala	Ser	Ser	Ser	Glu	Pro	Lys	Leu	Cys	Phe	Ala	Cys	
92	205				•	210					215					220	
94	tcc	gtt	tag	ctt	gta	gcc	gat	cag	tgg	cgt	tgt	tcc	aat	cga	cgg	tag	720
95	Ser	Val		Leu	Val	Ala	Asp	Gln	Trp	Arg	Cys	Ser	Asn	Arg	Arg		
96						225					230				•		
98	gat	tag	gcc	gga	tat	tct	cca	cca	caa	tgt	tgg	caa	cgt	tga	tgt	tac	768
99	Asp		Ala	Gly	Tyr	Ser	Pro	Pro	Gln	Cys	$\operatorname{Trp}$	Gln	Arg		Cys	$\mathtt{Tyr}$	
100	235	5					240	)				245	5				
															a tag	g ccg	816
103	Va]	L Tyı	: Ala	a Phe	e Gly	r Phe	Pro	Arg	, Thr	Ser	: Phe	e Gly	y Arg	J		Pro	
104		250					255					260					
106	taa	acc	g tag													gct	864
107	7	Thi	<u>-</u>	Cys	s Arg	g Arc	, Alá	a Ser	Arg	y Thi	Th:	: Pro	as As	Va]	L Cys	: Ala	
108	}			•	265	5				270	) .				275	5	
110	) tgt	: ccg	g cgg	g ggt	att	gaa	CCS	g cgc	gat	. ccc	g aca	a aat	cca	a cca	a ctt	tgg	912
111	. Суя	Pro	Arg	g Gly	/ Ile	e Glu	Pro	Arg	, Asp	Pro	Thi	: Ası	n Pro	Pro	Let	ı Trp	
112	?			280	)				285	5				290	)		
114	caa	a cta	a aat	: cgg	g tga	cct	gco	g cgt	ctt	ttt	tat	gca	a tta	a ttt	: cgt	ctt	960
115	Glr	ı Let	ı Asr	ı Arç	3	Pro	Ala	a Arg	Leu	ı Phe	e Sei	: Ala	a Lei	ı Phe	e Arc	J Leu	
116	5		295	5					300	)				305	5		,
118	tct	: ttt	gca	a tgg	g ttt	: cct	gga	ago	cgg	, tgt	aca	a tgo	ggt	: tta	a gat	: cag	1008
																Gln	
120	)		310	)				315	;		•		320	)			
		a tga	a cgo	g gad	g tga	cct	gca	aat	ctt	: tgc	g cct	. cga	a tct	gct:	: tgt	cct	1056
	Ser	_		g Ala												Pro	
124			325	_					330			_		335			
		ı tgo	g caa	a cga	a tgo	gtt	caa	ı taa	act	ctt	gtt	ttt	taa	caa	a gtt	cct:	1104
	_			_	_	_											

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127		Trp	Gln	_	Cys	Val	Gln		Thr		Val	Phe		Gln	Val		
128				340						345			<b>.</b>	~~+	~~~	350	1150
	cgg						_		_		_	_				tya	1152
	Arg	PHE	FIIE	Ата		PLO	PLO	пеп	AIA		ALG	ьeu	Cys	Ата	365		
132	atg	+ ~~	<b>a</b> aa	tas	355	+ >~	+ 00	999	a a t	360	+~~	tat	aat	aat		att	1200
	Met	_			_	_				_	_						1200
136	Met	per	GIII	Ser	370		per	PIO	TIII	vaı	375	SET	FIO	FIO	FIO	380	
	gtt	tas	taa	caa		cat	act	tac	caa	tac		aca	ctt	aaa	gaa		1248
	Val	_	_		_	_	Thr			_	_	_					1240
140	Val		DCI	nr 9	пор	385	1111	Cyb	my	Cyb	390	1114	шец	014	014	395	
	ctt	ctt	cta	aaa	acc		ctt	αta	att	cta		cat.	aaσ	gca	att		1296
	Leu				_			_				_	_	-			
144				-1-	400					405	<b>F</b>	5	-1-		410	<b>F</b>	
	act	tca	taa	tca		gaa	tca	cac	caa		taq	taa	tga	qca		tat	1344
	Thr						Ser						_	Ala			
148					415			_		420						-	
150	gcg	gct	gca	aat	aca	gcg	ggt	cgc	ccc	ttt	tca	cga	cgc	tgt	tag	agg	1392
	Ala															Arg	
152		425					430					435					
154	tag	ggc	CCC	cat	ttt	gga	tgg	tct	gct	caa	ata	acg	att	tgt	att	tat	1440
155		Gly	${\tt Pro}$	His	Phe	Gly	${\tt Trp}$	Ser	Ala	Gln	Ile	Thr	Ile	Cys	Ile	Tyr	
156			440					445					450				
	tgt							ctt	tat	cac	aaa	ctg	tat	att	tta	aac	1488
159	Cys	Leu	His	Glu	${ t His}$	Val			Tyr	His	Lys	Leu	Tyr	Ile	Leu	Asn	
160		455						460					465				
	tgt																1536
	Cys		_	Arg	Pro	$\mathtt{Trp}$	Pro	_	Thr	Gly	Pro	Val	_	Arg	Ala	Leu	
164			470					475					480				
	gca	-		-		-							taa	_			1584
	Ala	_	Thr	Ата	GIA		Thr	_	Leu	Leu	GIn	тте			Leu	GIN	
168		485					<b>+</b> ~ ~	490			~+~	~~+		495		- a+	1622
	ttt		-				_		_	_	_	_		_			1632
172	Phe		Arg	500	PIO	PHE		ıyı	TIIL	505	val	Asp	PHE	Ата	510	TIII	
	att	att	+++		aaa	222	ata	220	++ a		taa	+ = =	aas	ata		222	1680
	Ile	-					Leu										1000
176	TIC	vai	FIIG		515	цуз	шец	Hall	пец	520	тър		лια	110	110	525	
	tat	aaa	ада	aca		acc	act	aca	aca		atc	att	ata	aac	aca		1728
	Tyr																
180	-1-	011	O-1	****	530	1114				535		• • • •			540	1101	
	ggc	acc	aat.	ctc		gca	agc	aac	taa		ata	tta	cac	att		cac	1776
	Gly											Leu					
184	2		2	545	1			1		550					555	_	
	ggc	aaa	cat		aaa	agc	caa	taq	tac		ttt	gat	ttq	cat		aac	1824
	Gly							J				Asp					
188	-	-		560	-				-	565		-			570		
	ggc	gat	ttt	tta	aat	tat	ctt	att	taa		ata	gtt	atg	acg	cct	aca	1872
	Gly	_										Val					

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PATENT APPLICATION: US/10/627,649 TIME: 1

19	92				575							580					585		
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19	95	Thr	Pro	Arg	Pro	Arg		Leu	Ala	Ala	Pro	Arg	Āla	Val	Arg		Arg		
19	96			_		590						595					-		
. 19	98	ctt	cct	ccq	tqt	qqc	cga	aca	cgt	cqa	qcq	qqt	ggt	cqa	tqa	cca	qcq	196	8
									Arg						-	Pro			•
		600			•	-	605		_	_		610							
20	02	aca	tac	cac	acq	cga	cac	aca	agt	atc	tat	aca	cca	aat	qat	cat	caa	201	.6
									Ser										
		615	1				620				1	625			•		630		
	-		aag	qca	cat	caa	cct	сса	agt	aac	aat		aac	aaa	ttc	gaa		206	4
									Ser										
	08		-1-		5	635				1	640		1	-1-		645			
		ata	tac	agt	t.aa		at.t.	tac	gca	tat		tida	t.aa	cat	t.aa	-	t.at.	211	2
				_		_	_	_	Ala			-		-		_	_		-
	12		- 1 -	DC1	650					655	<b></b>	001		9	660		0,10		
		aca	tæc	gaa		tga	+++	аса	tgc		cca	aaa	tta	aat		tac	gat	216	0
									Cys										•
	16			665	5				010	670		-10	Lea		675	010	1101		
		tag	tac		taa	aac	att	αta	cat		cac	+++	taa	tca		cat	cga	220	8
	19	cag	Cys	_	cuu				His		_				_	_	_		
	20		C <sub>I</sub> D	1101		680					685		•		0,10	3	690		
		tta	aat	cac	aca		gag	tca	agt	gat		aat	ata	gaa	taa	tat		225	6
									Ser							Cys	_	22,	, ,
	24	пси	77011	my	mu	695	OIU	DCI.	DCI	quir	700	DCI	Val	OIU		Cy D	705		
		ctt	tat	att	כככ		tca	agc	gca	aca		att	tta	aca	aac	tag		230	14
									Ala							uug	Pro		•
	28	<b></b> Cu	Cyb	110	110	710	DCI	OC.	1114	1114	715	110	шец		11011		720		
		tct	tat	aad	tta		tca	+++	aat	gca		tta	tcc	aat	aat	ata		235	2
			-	-		-			Asn	-								200	_
	32	001	Cyb	<b>-</b> 17.0	100	725	001		11011		730	шеш	501	11011	11011	735	200	• •	
		tat	atc	gca	cat		gaa	tta	aca	ata		cca	tta	taa	cat		aac	240	0
		_		_	_		_		Thr	_	_	-	_	_					•
	36	<i>-</i> 1.0			740		014	Lou		745	3		200		750				
		aca	act			gag	atc	aaa	taa		aca	aat	taa	ata		tac	gac	244	-8
		-		_			Ile		-	-	-				Ala				
	40			755		014	110	27.0		760		11011			1110	765	1101		
		gca	aca		aca	atc	tat	gca	cgc		cca	aca	cga	act	tta		gta	249	16
									Arg										•
	14	1114		_			_		9								• • • • • • • • • • • • • • • • • • • •		
		ata							aca							cga	tca	254	4
			_				Ala			cgu		Pro	cug	cgu		Arq		201	-
	± 7 48		JUL	785	-1-	JIU	211 CI	1100	790		110	110			U111	9	795		
		cac	cca		gaa	cta	cca	act	aca	222	tta	cca	agt	ato	taa	ata		259	2
									Thr									233	-
	52	AT 9	110	пур	JIU	800	110		1111	пур	805	110	DCI	1106	LUL	810			
		tta	äaa	cta	tta		cat	CC3	atc	asc		tac	taa	aat	cad		cac	264	n
						_			Ile	_		_	_		Gln			207	
	56	<u> </u>	пγъ	Leu,	815	UCT	1170	110	116	820	ALY		OCT	₩911	0111	825	-11-3		
۷:	90				013					020						023			

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DATE: 09/03/2004 TIME: 15:21:34 PATENT APPLICATION: US/10/627,649

	tgg																2688
	Trp	Cys	Glu	Lys	Pro	Arg	Ser	Met		Asn	Ala	Ser	Tyr		Val	$\mathtt{Trp}$	
260				830					835					840			
	agt																2736
	Ser	Pro		Ile	Arg	Ala	Ser		Leu	Asp	Lys	Lys		Thr	Tyr	Leu	
264			845					850					855				0.504
	att																2784
	Ile		Pro	Asp	.Asp	Phe		Asp	Lys	Leu	Thr		Thr	Pro	Tyr	Thr	
268		860					865					870					
	gta																2832
	Val	Phe	Tyr	Asn	GLY		Val	Leu	Val	Lys		Ser	GIŸ	ьeu	Arg		
	875					880					885					890	0000
	tac																2880
	Tyr	Met	Leu	Leu		Ala	Pro	Pro	Thr		Asn	GIU	шe	гуs		ser	
276					895					900					905		2020
	aat																2928
	Asn	Phe	Lys		Arg	ser	гàг	Arg		шė	Cys	мет	ьys		Cys	vai	
280				910					915					920	~~+		2076
	gaa																2976
	Glu	GIY	_	ьуs	Asn	vaı	val		мет	ьeu	ASI	ASI	ьуs 935	тте	ASII	мес	
284			925					930		~~+	++~			220	'aat	at a	3024
	cct																3024
	Pro		Cys	тте	гуѕ	ьуѕ	945	ьeu	ASII	Asp	ьеи	ьуs 950	GIU	ASII	ASII	vai	
288		940	~~~	aat	2+4	+	-	224	200	+++	2+2		220	tat	tag	a++	3072
	ccg Pro																3072
	955	Arg	Gry	СТУ	Mec	960	Arg	цуь	ALG	FIIC	965	пеп	Abii	Cys	ıyı	970	
	gca	224	at a	~++	taa		~~~	220	+~+	~~~		aa.	tat	tta	ata		3120
	Ala																3120
296	Ата	ASII	vaı	vai	975	СуБ	Αια	цуз	Cys	980	ASII	hrg	Cys	шси	985	цур	
	gct	ata	aca	cat		tac	aac	cac	gac		aad	tat	ata	aat		a gtc	3168
	Ala														_	ı Val	5200
300	ΛIα	пси	1111	990	LIIC	- y -	11011	1110	995	DCI	шую	Cyb	V 44.2	1000			
	atq	cat	ct t		a ato	: aaa	a tee	c caa		at. of	ta ta	at aa	aa c			aac	3213
	Met				ı Ile				_	_	_				Pro A		
304		1110	1009			<i>-</i> 1.		10:		- F		<i>i</i> – –.	_	015			
	tgc	caa			r aaa	act	. ata			ad ct	ta to	at co			gct g	aac	3258
	Cys				t Lys										Ala (		
308	~ <i>1</i> ~		1020					102				<b>1</b>		030		•	
	aac	tac			t cto	aat	. cct		1	gt aa	at ta	at to	ga ai	ta at	ta a	aaa	3303
	Asn													le I			
312		- 4	1039		•			104		•	•	•			045	-	
	caa	tta	taa	atq	cta	aat	tto	tti	t tti	t at	t a	ac ga	at a	ca aa	ac ca	aa	3348
	Gln				Leu												
316					1050					10!			_			060	
	acg	caa	caa	gaa	cat	tto	g tac	g tat	t tai	t cta	a ta	a tte	g a	aa a	eg eg	gt agt	3396
	Thr			-			_			r Lei						rg Ser	
320					1065			-	-			10				•	
	tat	aat	c cgc	tga	a ggt	aat	att	: ta	aa aa	at ca	at ti	tt ca	aa a	tg a	att o	cac	3441
			_	~										•			

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/627,649

DATE: 09/03/2004 TIME: 15:21:35

Input Set : A:\10 627,649 Sequence Listing.txt

Output Set: N:\CRF4\09032004\J627649.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:273; Xaa Pos. 2

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/627,649

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Output Set: N:\CRF4\09032004\J627649.raw

L:6860 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:273 after pos.:0